(19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 18 August 2005 (18.08.2005)

PCT

(10) International Publication Number WO 2005/074706 A1

- (51) International Patent Classification⁷: A23K 1/16, 1/18
- (21) International Application Number:

PCT/CA2005/000138

- (22) International Filing Date: 3 February 2005 (03.02.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:

3 February 2004 (03.02.2004) US 60/541,053

- (71) Applicant (for all designated States except US): UNI-VERSITE DE MONTREAL [CA/CA]; Pavillon 3744, rue Jean-Brillant, Bureau 450, Montreal, Quebec H3T 1P1 (CA).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): NADEAU, Eric [CA/CA]; 1072 Spiller, Otterburn Park Quebec J3H 5E4 (CA). FAIRBROTHER, John, Morris [AU/CA]; 615 rue Duquesne, Saint-Hyacinthe, Quebec J2S 7A6 (CA).
- (74) Agent: ROBIC; Centre CDP Capital, 1001 Square Victoria, Montreal, Quebec H2Z 2B7 (CA).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF LIVE BACTERIA FOR GROWTH PROMOTION IN ANIMALS

(57) Abstract: The present invention relates to the use of F4⁺ non-pathogenic Escherichia coli strains to promote growth in an animal. The present invention also relates to the use of such strains to homogenize growth among a herd of animals. More specifically, the animal(s) of interest in the present invention are those wherein growth promotion or growth homogenization are desired goals, such as animals reared for meat production. The present invention further relates to a method for promoting growth of an animal as well as a method for homogenizing growth among a herd of animals.

